SCS8000E
Multipoint Control Unit (MCU)

This HD + SD and fully integrated powerful MCU assures you to enjoy a high quality of IP based videoconferencing communication.

SCS8000E is a high performance and fully integrated Multimedia Conference platform, which combines the latest technologies in video, audio and network transmission. This unique in-the-market MCU supports HD and SD resolution videoconferencing with fully integrated services such as Gatekeeper, firewall traversal and T.120, no need of any additional device or server in any IP network environment. No matter through Internet, VPN (Virtual Private Network) or leased lines, SCS8000E performs cost-effectively with the most concise architecture to replace the conventional "platform + additional servers" structure. SCS8000E supports efficient H.264 video codec technology and H.239 dual video stream, it also provides powerful media processing capabilities such as N+1, N+2 and N+3 style Continuous Presence and Intelligent Audio Mixing from 32 sites. After all, SCS8000E gives you a full variety of application features for your videoconferencing exercise.

• Quality Conference Result
With efficient H.264 video codec and wideband audio processing technologies, SCS8000E can manage HD and SD image resolutions for videoconferencing effect and support H.239 dual video streaming standard, which allows multiple sites to share PC images with resolution of up to 1024 × 768.

• Flexible Access Capacity
SCS8000E is configured of access capacity of 8 ~ 128 channels, with convention of 16 group meetings at the same time. Each access node supports a streaming bandwidth up to 4 Mbps with capability to adapt different calling rate automatically. It is very suitable to multiple access networks with different bandwidth conditions such as the Internet, VPN, leased lines and LANs.

• Excellent Network Adaptability
With the embedded proxy service with standard of H.460 protocol, SCS8000E supports NAT/firewall traversal and allows deploying endpoints at any place without interference of network security policies. Using Intelligent Packet Loss Recovery (IPLR) and QoS technologies, SCS8000E ensures operation stability under various network environment. Even through a home use ADSL access from a remote site, the video and audio qualities you can get for your conference can also be maintained very satisfactory.

Innovative Multi Service Provider Access Bridge
SCS8000E is capable to be connected simultaneously by multiple Internet Service Providers as a network bridge, which helps solving the bottleneck issues between different Service Providers caused by geography and commercial competition. Embedded within the machine, this function can maximize effective bandwidth and speed from each remote site, and no additional server is required.

• Powerful Conference Features
With uniquely rich layouts of up to 16 sites in Continuous Presence and powerful function of Intelligent Audio Mixing, SCS8000E supports a perfect interactive conference with each party. Conference Template and Conference Booking Service allow you to originate a conference with number of participants and various preset parameters, anytime just by simple button click. Also, Virtual Conference can be accessed by calling a number without any preset of participants. Furthermore, you may use Meeting Control Console (MCC), a friendly GUI software for a complete conference management.

• Cost Effective and Protect Investment
No matter with software or firmware platforms, both are fully integrated with service functions such as Gatekeeper (GK), firewall traversal proxy and T.120, SCS8000E is considered as an All-in-One solution for functions usually realized by several third party devices or servers. Thus, your system setup and maintenance cost will be tremendously reduced. Since the system can be easily upgraded through software to a higher version in terms of capacity, protocols and features, your investment is surely protected.

SCS8000E Multipoint Control Unit (MCU)

Technical Specifications

Standards Followed
System standard: H.323, SIP
Video standard: H.263, H.263+, H.264
Audio standard: G.711、G.722.1 Annex C/Polycom® Siren14™、G.728
Dual video standard: H.239
Network protocol: TCP/IP , Telnet, HTTP, FTP, SNMP, DHCP, RTP/RTCP
Other standards: H.225, H.231, H.235, H.241, H.242, H.243, H.245, H.281, H.460, T.120

System Capacity
Twelve selective configurations: 8, 12, 16, 20, 24, 28, 32, 40, 48, 56, 64and128 users
Supporting a maximum of 16 groups of conferences at the same time

Network Interface
One single 10/100Mbps interface and two 10/100/1000Mbps interfaces

Conference Rate
Up to 4 Mbps

Video Resolution
720P（1280×720）
4CIF（704×576）
CIF（352×288）
QCIF（176×144）
VGA（640×480）
SVGA（800×600）
XGA（1024×768）
SXGA(1080×1024)

Continuous Presence
2, 3, 4, 9 and 16 pictures
Multiple VIP layouts: 1 + N, 2 + N, 3 + N and more styles
Voice activation auto-trace
Customized CP background and frame color

Audio Features
Intelligent Audio Mixing
Mute and Dumb control
Voice Active Detection

Conference Functions
Virtual Conference
Conference Template
Conference Booking
Director Control, Chairman Control, Voice Activation, Auto Polling
Endpoint join-in request, chairman request, speaker request, and chime-in request

Cascade Conference
Supporting visual MCC software

Caption
Conference caption scrolling
Configuration and management in WEB mode
Caption entry or file loading
SMS by Group sending or selective sending

Dual Video Stream
H.239 dual video stream
Adjustable dual stream bandwidth allocation
Right setting to originate dual stream

Data Conference *
T.120 standard conference
Rate range: 64Kbps ~ 2Mbps
Whiteboard, application sharing, file transfer and multi-party chatting
Supporting the access of a maximum of 32 parties
* This function module is optional

Embedded GK
Endpoint registration
Address resolution
Call control
Bandwidth control
Regional management

Network Adaptability
H.460 NAT/firewall transversal
IPLR (Intelligent Packet Loss Recovery)
QoS (DiffServ, IP Precedence)
Auto recall after interruption
Access bridging with multiple networks
Multicast conference

Security Features
H.235 conference encryption
128-bit AES encryption
Conference password authentication, conference lock protection
Management User authentication and authorization
Multicast user authentication

Management and Maintenance
Configuration in interface mode
Remote configuration/upgrade
System log

Electricity Characteristics
Power consumption: ≤128W
Power supply: AC (100V～240V/50~60Hz)

Environmental Requirement
Ground resistance: ≤ 5 Ω
Operating temperature: 0ºC ~ 60ºC
Operating humidity: 10% ~ 85% (non-condensing)
Atmospheric pressure: 86 ~ 106 kPa

Physical Features
19-inch 2U rack mounted*
Height × width × depth: 88mm × 443mm × 338mm
Weight: ≤ 5.7 kg
* Only for firmware platform

SCS6210/6210E

At a great performance/cost ratio, ScS6210/6210E videoconferencing terminal ensures you the most efficient communication solutions tailored to suit the needs of your enterprise.

SCS6210/6210 is a set-top videoconferencing terminal, integrated with a PTZ camera. Its small form factor with highly fashionable Italian style design, incorporating outstanding video & audio performance and exceptional network adaptability, SCS6210/6210 brings you a perfect videoconferencing experience and delivers functions like synchronous transmission of speaker and laptop screen, telephone calls, streaming media, firewall traversal and encryption policy. SCS6210/6210 performs also a strong extension conference in order to create efficient and real life communications with remote instant collaboration.

- **Exceptional Video/Audio Quality**
Embedded with efficient H.264 video codec and Broadband Sound Processing technologies and with integration of the Video Intelligence Optimization and Coding Policy Adjustment technologies®, SCS6210/6210 lets you enjoy an exceptional audiovisual experience in any type of bandwidth environment, even in limited uploading speed of ADSL access networks.

- **Efficient Remote Collaboration**
It becomes very easy by sharing a high resolution screen images from your laptop through this video communication channel with multiple sites. Every participant can browse your presentation slides, pictures, spreadsheets or documents simultaneously while watching your speech image. Audience can choose a PIP mode either on one TV set or use one TV and one projector separately.

- **Strong Network Adaptability**
With power of IPLR (Intelligent Packet Loss Recovery), Dynamic Rate Adjustability and QoS Optimization technologies, this Meeting Terminal can automatically adapt to different network environments and ensure conference running under adverse Internet network conditions. SCS6210/6210 also consists of a built-in proxy, which allows setting up a traversal over NAT and firewall, without any additional equipment. Thus, you can rapidly deploy a highly secured network on the basis of Internet connection.

- **Intensive Security Feature**
SCS6210/6210 adopts the 128-bit high-reliability encryption mechanism to insure conference information security. In addition, it incorporates the embedded design architecture based on dedicated chips and strict authorization & authentication policies to prevent system security from unauthorized access.

- **Telephone Call**
SCS6210/6210 provides user with the incoming/outgoing phone call function. Those who are not present to a conference site can also attend the conference by using a fixed line telephone or a mobile phone. Furthermore, it can serve as a standalone teleconferencing terminal.

- **Conference Multicast**
SCS6210/6210 supports conference multicast function, which makes live multicast of a conference to LAN users. In this way, those who are not present to conference site can watch the conference from their PC in office.

- **Embedded MCU (Only for SCS6210E)**
By use of an embedded MCU, SCS6210 can get access to a maximum of five remote sites at the same time. To create a multipoint conference, it won't require any additional equipment, which saves considerably cost.

- **Simple and Easy to Use**
SCS6210/6210 is a compact and fashionable design product with integration of a high-performance PTZ camera. Besides, the package comes with a high-quality omni directional microphone. The setup is simple by connecting SCS6210/6210 to a TV set or projector and to a network connection. SCS6210/6210 provides you with friendly Graphic User Interface, you can use its remote control to initiate a conference, just as simple as making a phone call.

SCS6210/6210E

Technical Specifications:

Protocol Standards
System standard: H.323
Video standard: H.263, H.263+, H.264
Audio standard: G.711, G.722.1 Annex C/Polycom®
Siren14™, G.728
Dual video standard: H.239
Network protocols: TCP/IP, Telnet, HTTP, FTP,
SNMP, DHCP, RTP/RTCP
Other standards: H.225, H.231, H.235, H.241,
H.242, H.243, H.245, H.281

Conference Rate
Up to 2 Mbps

Video Resolution
CIF (352×288)
VGA (640×480)
SVGA (800×600)
XGA (1024×768)

Video Frame Rate
PAL: 25 frame/second
NTSC: 30 frame/second

Video Input
1×RCA, composite video

Video Output
2×RCA, composite video
1×VGA, PC content

Video Features
PIP display
Video input signal detection
Adjustment of brightness, saturation, and contrast
Local video loop function

Audio Input
1×MIC, XLR interface (12V phantom power
supply)
2×RCA, line level
1×KAI, dedicated Kedacom Audio Interface
(Application functions to be extended)

Audio Output
2×RCA, line level

Audio Features
Automatic mixing of multiple inputs

Automatic Echo Cancellation (AEC)
Automatic Noise Suppression (ANS)
Automatic Gain Control (AGC)
Mute and quiet control
Active lip synchronization

Network Interface
SCS6210:1×10/100Mbps
SCS6210E: 2 x 10/100Mbps
WiFi optional, IEEE 802.11b/g

Control Interface
1×RS232
Infrared remote control

Phone Interface
1×FXO

Other Interfaces
1×USB 2.0 (Application functions to be extended)

Network Adaptability
NAT/firewall traversal
Socks5 traversal
IPLR
Dynamic rate adjustment
QoS (DiffServ, IP Precedence)
IP address conflict detection
PPPoE

Embedded MCU (Only for SCS6210E)
6-point MCU (local site + 5 remote sites)
Continuous Presence, and intelligent mixing
NAT/Firewall traversal
Embedded gatekeeper

Security Features
H.235 conference encryption
128-bit AES encryption
Conference password
Login authentication and authorization
Gatekeeper password authentication

Management and Diagnosis
OSD menu management via a remote control
PC Web login management
Online configuration and remote upgrade
Terminal self-test, loopback test, color bar test, and
audio test

Running status monitoring, alarm display and
sending
Address book management
Virtual meeting room on SCS serial MCU

Multicast Functions
Conference streaming multicast
Dual video streaming multicast
Multicast password authentication

Dual Video Stream
H.239 dual video stream
Adjustable dual streaming bandwidth allocation
PIP mode/Dual display mode

Language Support
Chinese, English, French
Input Language: Chinese, English

Caption Function
Boardroom logo
Boardroom simulation banner
Short message sending/receiving

Camera
Optical zoom: 18X
Maximum horizontal angle of view: 48°
Pan Range: ±100°
Tilt Range: ±30°
Horizontal resolution: 460 lines
Minimum illumination: 1.0 lux
Auto/manual zoom
Automatic white balance
PTZ control
Number of preset positions: 6

Electric Features
Power consumption: ≤30W
Adapter power supply: AC (90~246V/47~63Hz)

Environmental Requirement
Operating temperature: 0°C~40°C
Operating humidity: 5%~85% (non-condensing)
Atmospheric pressure: 86~106kPa

Physical Features
Dimensions:150mm (H)×270mm (W)×210mm(D)
Weight: ≤2kg

SCS6310/6310E

With perfect combination of excellent performance and powerful functions, videoconferencing terminal brings you the enhanced communication solutions tailored to suit the needs of your enterprise.

SCS-6310/6310E

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supply)
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(Application functions to be extended)

Audio Output

2×RCA, line level

Audio Features

Automatic mixing of multiple inputs

Automatic Echo Cancellation (AEC)
Automatic Noise Suppression (ANS)
Automatic Gain Control (AGC)
Mute and quiet control
Active lip synchronization

Network Interface

2×10/100Mbps
WiFi optional, IEEE802.11b/g

Control Interface

1×RS232
Infrared remote control

Phone Interface

1×FXO

Other Interfaces

1×USB 2.0 (Application functions to be extended)

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Socks5 traversal
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H.239 dual video stream
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Boardroom logo
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